**Index of Claims** 

| Appl | lication | Control | No. |
|------|----------|---------|-----|

Non-Elected

10/692,849

Examiner

Lisa M. Caputo

Applicant(s)/Patent under Reexamination

OGAWA, KATSUYA

Art Unit

2876

| - | <b>√</b> | Rejected |
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(Through numeral) Cancelled

N Restricted Interference

| A | Appeal   |
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| Cla   | aim      | Date     |          |          | Claim Date |                |               |                 |          |          |          |              | Cla  | aim           | Date    |                           |               |          |                 |    |              |          |                 |          |         |              |          |          |          |           |          |
|---|----------|----------|----------|----------|------------|----------------|---------------|-----------------|----------|----------|----------|--------------|--|---------------|---------|---------------------------|---------------|----------|-----------------|----|--------------|----------|-----------------|----------|---------|--------------|----------|----------|----------|-----------|----------|
|   |          | П        | T        |          | [          |                |               |                 | $\neg$   | ┑        |          |              |  |               | T       | П                         | $\neg$        | Т        | T               | lì |              |          |                 |          | Т       | $\neg$       | T        | П        | $\neg$   | $\neg$    | ヿ        |
| <del>-</del>  | Original | 8/21/05  |          |          | - 1        |                |               |                 |          |          | =        | Original     |  |               | 1       |                           | - 1           |          |                 |    | <del>-</del> | Original |                 |          | 1       |              | - 1      | ı        | 1        | -         |          |
| Final   | Ξō       | اجًا     |          |          |            |                |               |                 |          | ı        | Final    | i <u>g</u> i |  |               |         | 1 1                       | - 1           |          |                 |    | Final        | .jg      |                 |          |         | - 1          | - 1      | - 1      | l        |           |          |
| ш   | ŏ        | 8        |          |          | -          |                |               |                 |          |          | "        | ō            | l I  |               |         | 1 1                       |               | - 1      |                 |    | ш            | ŏ        | ı               | İ        |         | -            | - 1      | 1        | ł        |           |          |
|   |          | $\sqcup$ |          | _        | _          |                |               | Ш               |          | 4        | <u> </u> |              |  |               |         | ┦                         | -+            | -        |                 |    |              |          | $\rightarrow$   | _        | 4       | 4            | 4        | 4        | -        | 4         | 4        |
|   | 1        | Ŀ        | _        | 4        | _          | _              | _             |                 |          | 4        |          | 51           | $\sqcup$   | $\perp$       | ┷       | $\vdash$                  |               | 4        | $\perp$         |    |              | 101      |                 | _        | 4       | 4            | 4        | _        | -        | 4         | _        |
| 1_  | 2        | Ξ        | $\dashv$ |          |            |                |               | Ш               |          | ┙        |          | 52           | Ш  | $\perp$       | $\perp$ | <u> </u>                  | _             |          |                 |    |              | 102      |                 |          | ᆚ       | _            | _        |          | _        | 4         |          |
| 2   | 3        | =        |          |          |            |                |               |                 |          | ╝        |          | 53           |  |               |         | Ш                         |               | i        |                 |    |              | 103      |                 |          |         | ᆚ            | $\perp$  |          |          |           |          |
| 3   | 4        | =        |          |          |            |                |               |                 |          | ╝        |          | 54           | l  |               |         | $oxed{L}$                 | L             | _1       |                 |    |              | 104      |                 |          |         | $\perp$      |          |          | $\perp$  |           |          |
| 4   | 5        | =        |          |          |            |                |               |                 |          | 7        |          | 55           |  |               |         |                           |               |          |                 |    |              | 105      |                 |          |         |              | Т        |          |          |           |          |
|   | 6        | -        |          |          |            |                |               |                 | $\Box$   | 7        |          | 56           |  |               |         | П                         | $\neg$        | Т        |                 |    |              | 106      |                 |          | T       | Т            | $\neg$   | П        | $\Box$   | П         | П        |
| 5   | 7        | =        |          | $\neg$   | 一          |                |               | П               |          | 7        |          | 57           |  |               |         | П                         | $\neg$        | Т        |                 |    |              | 107      |                 |          | Т       | Т            | Т        | П        | $\neg$   | $\exists$ | П        |
| 6   | 8        | ▗        | $\neg$   | $\neg$   | 一          |                |               | П               |          | 7        |          | 58           |  |               | 1       | $\Box$                    |               | T        | $\neg$          |    |              | 108      |                 |          | T       | T            | $\neg$   |          | $\Box$   | $\neg$    |          |
| 7   | 9        | ₌        | $\dashv$ | ╗        | ヿ          |                |               | П               |          | 7        |          | 59           |  | $\top$        | 1       |                           | 丁             | T        |                 |    |              | 109      |                 |          | T       | $\neg$       | T        |          | 丁        | コ         | $\neg$   |
| 8   | 10       | =        | 寸        | 寸        | ヿ          |                |               | П               |          | 7        |          | 60           |  | $\neg$        | 1       | $\Box$                    | 一             | $\neg$   |                 |    |              | 110      | П               |          | ╅       | 7            | $\neg$   | T        | $\neg$   | 寸         | ヿ        |
| Ť   | 11       | -        | $\dashv$ | 7        | ┪          | $\neg$         | -             |                 | _        | ┪.       | <b> </b> | 61           |  | $\top$        | +       |                           |               | $\dashv$ |                 |    |              | 111      | $\neg$          | $\neg$   | ╅       | +            | 十        |          | 十        | 十         | ᅥ        |
| 9   | 12       | =        | 十        | ┪        | ᅱ          | $\dashv$       | -             | Н               | +        | 1        |          | 62           | $\vdash$   | $\dashv$      | $\top$  | $\vdash$                  | $\dashv$      | +        | $\top$          |    |              | 112      | $\vdash$        | _        | +       | $\dashv$     | 7        | _        | $\top$   | 十         | ᅱ        |
| 10  | 13       | =        | $\dashv$ | ᅥ        | ᅱ          | $\vdash$       |               | Н               | $\dashv$ | 1        | -        | 63           | $\vdash$   | _             | +       | $\dagger \exists \dagger$ | $\dashv$      | $\top$   | $\top$          |    |              | 113      | $\vdash$        | $\dashv$ | +       | $^{\dagger}$ | _        | +        | $\dashv$ | 十         | ㅓ        |
| 11  | 14       | =        | $\dashv$ | $\dashv$ | $\dashv$   | -              |               | H               | -        | ┪        |          | 64           | <del>                                     </del> | +             | $\top$  | 1-1                       | 十             | $\dashv$ | $\dashv \dashv$ |    |              | 114      | $\dashv$        | $\dashv$ | 十       | +            | 7        | $\dashv$ | $\dashv$ | $\dashv$  | ᅱ        |
| 12  | 15       | =        | $\dashv$ | ᅱ        |            | $\dashv$       | Н             | Н               | +        | 1        |          | 65           | $\vdash$   | $\dashv$      | +       | +                         | $\dashv$      | +        | +               |    |              | 115      | $\vdash$        | $\dashv$ | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| <u> </u>  | 16       | H        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$       | -             | $\vdash \vdash$ | +        | ┪        |          | 66           | $\vdash \vdash$                                  | +             | +       | +                         | +             | +        | +               |    |              | 116      | $\vdash$        |          | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$  | $\dashv$ |
|   | 17       | Н        | ┰        |          | $\dashv$   | $\dashv$       |               | Н               | +        | -        | <b>—</b> | 67           | $\vdash$   | -             | +       | +                         | -+            | +        | $\dashv$        |    |              | 117      | $\dashv$        | -        | +       | +            | +        | +        | -        | $\dashv$  | $\dashv$ |
|   | 18       | Н        | +        |          | $\dashv$   |                |               | Н               | -        | -        | <b>-</b> | 68           | ┝╌┼╴   |               | ╫       | +                         | $\dashv$      | +        | +               |    |              | 118      | $\vdash$        | +        | ╫       | +            | $\dashv$ | -        | -+       | -         | $\dashv$ |
| -   |          | Н        | -        | $\dashv$ | $\dashv$   | $\dashv$       | _             | Н               | +        | -1       | 1-       |              | $\vdash$   |               | +       | ╁╌┤                       |               | +        |                 |    |              | 119      | $\vdash$        | +        | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| ├─  | 19       | -        | $\dashv$ | $\dashv$ | -          |                | _             | -               | -        | 4        | <u> </u> | 69           |  |               | -       | $\vdash$                  | -             |          |                 |    |              |          | $\dashv$        | $\dashv$ | +       | +            | +        | $\dashv$ | $\dashv$ | +         | ᅱ        |
|   | 20       | Н        | $\dashv$ | -        | -          | $\blacksquare$ |               | Н               |          |          | -        | 70           |  |               | -       |                           | -             | +        | -               |    |              | 120      |                 |          | +       | +            | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
|   | 21       | Ш        | _        | -        |            | -              |               | _               | _        | _        | -        | 71           | <del>   </del>                                   |               | -       | $\sqcup$                  | $\rightarrow$ | +        | -               |    |              | 121      | Н               | _        | +       | -            | -        |          | -        | -         | 4        |
|   | 22       | Ш        | _        | _        | _          | _              |               |                 |          | _        | <u> </u> | 72           | <u> </u>   |               | ┦_      | $\vdash$                  | _             | -        |                 |    |              | 122      | $\vdash$        | $\dashv$ | 4       | +            | $\dashv$ | _        | <b>—</b> | $\dashv$  | 4        |
|   | 23       | Ш        | 4        | _        | _          | $\Box$         |               | Ш               | $\perp$  | 4        | <u> </u> | 73           | $\vdash$   |               | - -     | $\sqcup$                  | _             | -        | 4               |    |              | 123      |                 | _        | 4       | 4            | 4        | 4        |          | 4         | _        |
|   | 24       | Ш        | $\dashv$ | _        | _          |                |               | Ш               |          | 4        | <u> </u> | 74           | $\sqcup$   | 4             |         | $\sqcup$                  | _             | 4        |                 |    |              | 124      |                 |          | 4       | 4            | 4        | 4        |          | 4         | 4        |
| L   | 25       | Ш        | _        | $\dashv$ | _          |                |               |                 |          | _        | <u> </u> | 75           | $\sqcup$   |               |         |                           |               | 4        | $\bot$          |    |              | 125      |                 | $\perp$  | 4       | 4            | 4        |          | $\dashv$ | _         | _        |
|   | 26       |          |          | _        |            |                |               | Ш               |          | _        |          | 76           | Ш  | _ _           |         |                           | $\perp$       |          | $\bot$          |    |              | 126      | Ш               |          | _       | _            | 4        | _        |          | _         | _        |
|   | 27       | Ш        | $\perp$  | _        | _          |                |               | Ш               |          | _        |          | 77           |  | $\perp$       | $\perp$ | Ш                         | $\perp$       |          | $\perp$         |    |              | 127      |                 |          | 丄       | _            | _        |          |          | _         | _        |
|   | 28       | Ш        |          | $\Box$   |            |                |               |                 |          | _ _      |          | 78           |  |               |         |                           | $\perp$       | ᆚ        | $\perp$         |    |              | 128      |                 |          | 丄       | ᆚ            | $\perp$  |          |          | _         | _        |
|   | 29       |          |          |          |            |                |               |                 |          | ╝        |          | 79           |  |               | $\perp$ |                           | $\bot$        | $\perp$  |                 |    |              | 129      |                 |          | ┸       | ┙            | ┙        |          |          | $\perp$   |          |
|   | 30       |          |          |          |            |                |               |                 |          | 7        |          | 80           |  |               |         | [ ]                       |               |          |                 |    |              | 130      |                 |          |         |              |          |          |          |           |          |
|   | 31       |          | $\neg$   | $\Box$   | $\neg$     |                |               |                 | $\Box$   | 7        |          | 81           |  |               | Т       |                           |               |          |                 |    |              | 131      |                 |          | Т       | Т            | П        |          | $\neg$   | П         |          |
|   | 32       |          | П        |          | $\neg$     |                |               |                 |          | 7        |          | 82           |  |               | П       |                           |               | Т        |                 |    |              | 132      |                 |          |         | Т            | Т        |          | $\Box$   |           |          |
|   | 33       | П        | T        |          | $\neg$     |                |               | П               |          | 7        |          | 83           | П  |               | Т       | П                         |               | ╗        | $\neg \neg$     |    |              | 133      |                 |          | Т       | Т            | $\neg$   |          | $\Box$   |           | $\neg$   |
|   | 34       |          | 一门       |          |            |                |               |                 |          | 7        |          | 84           |  | $\neg \vdash$ |         | П                         | $\neg$        | Т        | $\neg$          |    |              | 134      |                 |          | Т       | 7            | T        |          | 丁        |           | $\neg$   |
|   | 35       | İΠ       | $\neg$   |          |            |                |               |                 |          | 7        |          | 85           |  |               |         | П                         |               | $\neg$   |                 |    |              | 135      |                 |          | T       | T            | $\neg$   | T        |          | $\neg$    | $\neg$   |
|   | 36       | П        | T        |          |            |                |               |                 |          | ٦        |          | 86           |  |               | ┪       |                           | $\neg$        | 1        |                 |    |              | 136      |                 | _   -    | $\top$  | $\top$       | 7        |          | 十        | $\neg$    |          |
| $\vdash$  | 37       | Н        | 十        | 7        | 一          | $\dashv$       |               | Н               | $\dashv$ | ヿ        |          | 87           | $\vdash$   | $\dashv$      | $\top$  | $\vdash$                  | 十             | $\top$   | $\top$          |    |              | 137      | $\dashv$        | _        | +       | +            | 十        | $\neg$   | 十        | 寸         | $\neg$   |
|   | 38       | Н        | -        | _        | $\dashv$   | $\neg$         | $\overline{}$ | $\vdash$        | _        | ٦        |          | 88           |  | _             | +-      | $\vdash$                  | _             | +        | $\top$          |    |              | 138      | $\dashv$        | $\dashv$ | +       | +            | 十        | $\dashv$ | $\dashv$ | 十         | ᅱ        |
|   | 39       | $\vdash$ | +        | +        | $\dashv$   | $\dashv$       |               | Н               | +        | $\dashv$ |          | 89           | $\vdash \vdash$                                  | _             | +-      | ╁                         | -+            | +        | $\top$          |    |              | 139      |                 | +        | +       | +            | +        | $\dashv$ | $\dashv$ | $\dashv$  | ᅥ        |
| $\vdash$  | 40       | $\vdash$ | $\dashv$ | ᅥ        | $\dashv$   | $\dashv$       |               | H               | $\dashv$ | 1        | -        | 90           | $\vdash$   | +             | +       | +                         | +             | +        | $\top$          |    |              | 140      | $\vdash$        | $\dashv$ | +       | +            | +        | 十        | +        | 十         |          |
| <del> </del>  | 41       | $\vdash$ | $\dashv$ | $\dashv$ | -          |                | -             | Н               | $\dashv$ | $\dashv$ | -        | 91           | $\vdash \vdash$                                  | +             | +-      | ╁╼┤                       | $\dashv$      | +        | +               |    |              | 141      | $\dashv$        | _        | +       | +            | $\dashv$ | $\dashv$ | 十        | $\dashv$  | $\dashv$ |
| <u> </u>  | 42       | $\vdash$ | +        | $\dashv$ | -+         | $\dashv$       |               | Н               | $\dashv$ | -        | -        | 92           | $\vdash$   | +             | +       | ╁                         | +             | +        | +               |    |              | 142      |                 | $\dashv$ | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| <u> </u>  | 43       |          | +        | ┥        |            | -              |               | Н               | -        | $\dashv$ | -        | 93           | <del>   </del>                                   | +-            | +-      | $\vdash$                  | +             | +        | +               |    | -            | 143      | $\vdash$        | +        | +       | +            | $\dashv$ | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| <del></del>   | 43       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$       |               | Н               | -        | -        |          | 94           | <del>   </del>                                   | +             | +       | +                         | $\dashv$      | +        | +               |    |              | 144      | $\vdash$        | $\dashv$ | +       | +            | +        | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| <del> </del>  | 45       | $\vdash$ | $\dashv$ | $\dashv$ | -          | $\dashv$       | _             | Н               |          | +        | $\vdash$ | 95           | <del>                                     </del> | +             | +       | $\vdash$                  | $\dashv$      | +        | +               |    |              | 145      | $\vdash$        | +        | +       | +            | +        | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| <u> </u>  | 45       | -        | +        | -        |            | $\dashv$       |               | $\vdash$        |          | $\dashv$ | -        | 96           | $\vdash \vdash$                                  | +             | +       | +                         | $\dashv$      | +        | $\dashv\dashv$  |    |              | 146      | $\dashv$        | +        | +       | +            | +        | +        | +        | +         | $\dashv$ |
| <u> </u>  | 47       | $\vdash$ | +        | $\dashv$ |            |                |               | $\vdash$        |          | $\dashv$ | -        | 97           | $\vdash$   | +             | +       | $\vdash$                  | $\dashv$      | +        | ┰               |    |              | 147      | $\dashv$        | $\dashv$ | +       | +            | +        | $\dashv$ | +        | $\dashv$  | $\dashv$ |
| ├   |          |          | +        | $\dashv$ |            |                |               | $\vdash$        |          | -        | $\vdash$ |              |  | -             | +-      | $\vdash$                  | +             | +        | +               |    |              |          | $\vdash$        | +        | +       | +            | -+       | +        | +        | +         | $\dashv$ |
| <u> </u>  | 48       | -        | $\dashv$ | -        |            |                |               | Н               |          | -        | $\vdash$ | 98           |  |               |         | ╀┼                        | +             | +        | +               |    |              | 148      | $\vdash \vdash$ |          | +       | +            | +        | -        | $\dashv$ | $\dashv$  | $\dashv$ |
| $\vdash$  | 49       |          | 4        | 4        |            | _              |               | Ш               | $\dashv$ | 4        | $\vdash$ | 99           | <del>   </del> -                                 |               | +-      | $\vdash$                  |               | +        | +               |    |              | 149      | $\vdash$        | +        | +       | +            | -+       | _        | $\dashv$ | $\dashv$  | 4        |
| $ldsymbol{le}}}}}}}}}$ | 50       |          | 丄        |          |            |                |               |                 |          | ╛        |          | 100          |  |               | 1       | oxdot                     |               | 丄        |                 | ıl |              | 150      |                 |          | $\perp$ |              | $\perp$  |          | L        | $\perp$   |          |